3. Brenda

Program Name: Brenda.java **Input File: brenda.dat**

Brenda loves computer science and participating in competitions, but for some reason can never seem to answer the pattern problems. Then her teacher told her a trick if she got stuck at a competition. Instead of trying to solve the pattern, make an if statement for each possibility and just print out the pattern. Well Brenda is in luck for this problem. Since the only possible input numbers are between 1 – 10. Wow those UIL writers were so nice. In fact, they were nicer because they also guaranteed there would be only 4 inputs for this problem. That is excellent. The only thing is they did add a twist where while there are 4 inputs, they wanted the shapes printed from smallest to largest, but guaranteed no duplicate numbers. So, Brenda came up with a plan. She would read in 4 inputs at the beginning and then have 10 if statements to see if one of the inputs matched one of the original inputs. Wow that seemed like an easy solution. She was also glad to know the pattern was easy, just a box with capital X filled in. She would check each input A, B, C and D if one of them equals a 1, then check A, B, C and D to see if one of them equals a 2, and so on.

Input: Exactly 4 data sets. Each data set has one integer X in the range 1 through 10, inclusive.

Output: A square made up of X characters, each pattern followed by a row of 20 dashes. The squares print out from smallest to largest square.

Sample Input:

```
3
1
5
2
```

Sample Output:

```
X
--------------------
XX
XX
--------------------
XXX
XXX
XXX
--------------------
XXXXX
XXXXX
XXXXX
XXXXX
XXXXX
--------------------
```